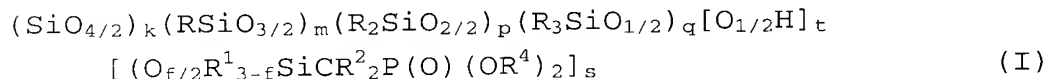


What is claimed is:

1. A process for preparing phosphonate-modified organosiloxanes of the general formula (I):



in which

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R is a hydrogen atom or a monovalent, optionally -CN-, -NCO-, -NR⁵₂-, -COOH-, -COOR⁵-, -halogen-, -acryloyl-, -epoxy-, -SH-, -OH- or -CONR⁵₂-substituted Si-C-bonded C₁-C₂₀-hydrocarbyl radical or C₁-C₁₅-hydrocarboxy radical in which one or more nonadjacent methylene units in each case may be replaced by -O-, -CO-, -COO-, -OCO-, -OCOO-, -S- or -NR⁵- groups and in each of which one or more nonadjacent methine units may be replaced by -N=, -N=N- or -P= groups,

20

R¹ is a hydrogen atom or a monovalent, optionally -CN-, -NCO-, -COOH-, -COOR⁵-, -halogen-, -acryloyl-, -SH-, -OH- or -CONR⁵₂-substituted Si-C-bonded C₁-C₂₀-hydrocarbyl radical or C₁-C₁₅-hydrocarboxy radical in which one or more nonadjacent methylene units in each case may be replaced by -O-, -CO-, -COO-, -OCO-, -OCOO-, -S- or -NR⁵- groups and in each of which one or more nonadjacent methine units may be replaced by -N=, -N=N- or -P= groups,

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R² is hydrogen or an optionally -CN- or halogen-substituted C₁-C₂₀-hydrocarbyl radical,

30

R⁴ is an optionally -CN- or halogen-substituted C₁-C₂₀-hydrocarbyl radical or hydrocarboxy radical,

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R⁵ is hydrogen or an optionally -CN- or halogen-substituted C₁-C₁₀-hydrocarbyl radical or substituted or unsubstituted polyalkylene oxides having from 1 to 4000 carbon atoms,

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k is an integer from 0 to 100 000,
m is an integer from 0 to 100 000,
p is an integer from 0 to 100 000,
q is an integer from 0 to 100 000,
5 **f** is an integer of 1, 2 or 3,
s is an integer of at least 1 and
t is an integer of at least 0,

where

10

k + m + p + q is an integer of at least 1,

characterized in that

15 functional silanes of the formula (III):



20 are reacted with water alone or together with silanes of the general formula (IV):



where

25

R³ is hydrogen or an optionally -CN- or halogen-substituted C₁-C₂₀-hydrocarbyl radical and
g is an integer of 1, 2, 3 or 4 and

30 **R, R¹, R², R⁴, k, m, p, q, f** and **s** are each as defined above.

35 2. The process as claimed in claim 1, characterized in that alkoxysilanes of the general formula (III) react with water to give Si-OH-functional compounds which condense further with one another to give cyclic, linear, branched or crosslinked organopolysiloxanes or organopolysiloxane resins.

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3. The process as claimed in claim 1, characterized in that alkoxysilanes of the general formula (III) react with silanes of the general formula (IV) and water to give Si-OH-functional compounds which condense
5 further with one another to give cyclic, linear, branched or crosslinked organopolysiloxanes or organopolysiloxane resins.

4. The process as claimed in claim 2 or 3,
10 characterized in that a catalyst is used.

5. The process as claimed in at least one of claims 1 to 4, characterized in that the process is carried out at from 10 to 80°C.

15 6. The process as claimed in at least one of claims 1 to 5, characterized in that solvents are selected from the group comprising aliphatic hydrocarbons, heptane, decane, aromatic hydrocarbons, toluene, xylene, ether,
20 tetrahydrofuran, diethyl ether, tert-butyl methyl ether, ketones, acetone and 2-butanone.

7. The process as claimed in at least one of claims 1 to 5, characterized in that no solvent is added.

25 8. The process as claimed in at least one of claims 1 to 7, characterized in that

30 **R** is a methyl, ethyl, vinyl or trifluoropropyl radical,

R¹ is a methyl or ethyl radical,

R² is hydrogen,

R³ is a methyl or ethyl radical,

35 **R⁴** is a substituted or unsubstituted methyl, butyl, phenyl or cyclohexyl radical,

R⁵ is hydrogen or a substituted or unsubstituted C₁-C₅-alkyl radical,

k is 0,

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m is 0,
p is an integer from 5 to 500,
q is 1 or 2,
f is an integer of 1, 2 or 3,
5 **s** is an integer of from 2 to 10 and
t is an integer of at least 0.

9. The process as claimed in at least one of claims 1 to 8, characterized in that the sum of **k** + **m** + **p** + **q** is
10 an integer of at least 3.

10. The use of the phosphonate-modified organosiloxanes of the general formula (I) obtainable according to at least one of claims 1 to 9 as an
15 additive in elastomers, additive in siloxane elastomers or antistatic additive in siloxane elastomers.